



DGE-550SX

DGE-550SX Gigabit fiber card for fiber-optic connection of server

## Gigabit Fiber Server Card

The DGE-550SX is designed for Gigabit fiber server connection. It plugs into your PC's PCI expansion slot, transfers data at 2000Mbps full duplex. The card runs Windows 95, 98, 2000, ME, XP, NT, NetWare and Linux, providing a server pipe for workstations to simultaneously access databases, send files and e-mail. This card provides a secure environment for bandwidth-demanding applications.

### Reliable Fiber Connection

This card allows you to establish a secure fiber link for your server. The card serves well in high electromagnetic interference environments, providing a multi-mode fiber cable distance of up to 550m to the switch.

### High Performance

The card uses the Bus Master mode to transfer data directly to/from the host at multi-megabits per second, bypass the host CPU to alleviate its workload. Running at 2000Mbps full duplex, it provides the ideal speed for very fast server access from workstations.

### Flow Control to Minimize Packet Loss

The card's embedded IEEE 802.3x Flow Control allows the server to directly connect to a Fast Ethernet switch for fast full-duplex, reliable data transfer. The

card senses when the switch buffer is full, it pauses transmission to prevent buffer over-write to minimize loss of data when transferred over the network.

### VLAN to Improve Performance and Security

The card provides on-board screening of VLANs Tagged Ethernet frames, allowing your server to be configured with a VLAN-supported switch. Consequently, your server can be part of a VLAN network, where domains are segmented up to enhance performance and security.

### On-board IP header and IP checksum

IP header and IP checksum of IP network packets are done by the chipset. In Internet, Windows and Unix environments, this serves well by offloading the host's overheads to enhance the network performance.

### Key Features

- 1000BASE-SX Gigabit fiber connection for PC servers
- Multi-mode fiber support
- SC fiber optical connector, laser AEL Class I compliant, safe for eye viewing
- 2000Mbps full duplex support
- 32-bit or 64-bit Bus Master data transfer with host
- Supports PCI clock speed up to 33/66MHz
- Flow Control for fast, reliable data transmission
- On-board IP header verification & IP checksum
- VLAN Tagging support
- Jumbo frame support
- Plug-and-play installation
- Runs Win95, 98, 2000, NT, XP, NetWare, Linux

# DGE-550SX

## Technical Specifications

## Office LAN

### General

#### Standards

- IEEE 802.3z 1000BASE-SX Fast Ethernet
- PCI local bus 2.1 specifications
- IEEE 802.3x Flow Control
- IEEE 802.3ac VLAN tagging

#### Topology

Star

#### Protocol

CSMA/CD

#### Network Data Transfer Rate

2000Mbps (full-duplex)

#### Network Cable

- 62.5/125 micron multimode fiber (260m)
- 50/125 micron multimode fiber (550m)

#### Fiber Connector

SC Type

#### Diagnostic LED Report

- Power
- Link/Active
- Full duplex

#### Cache Buffer

- 32K bit receive FIFO
- 16K bit transmit FIFO

#### Flow Control

IEEE 802.3x flow control per for full duplex

### System Setup

#### IRQ

Allocated by system

#### I/O Address

Allocated by system

#### Full/half Duplex

Full duplex only

### Environmental & Physical

#### Power Consumption

5.58 watts (maximum)

#### Dimensions

166 x 73 mm

#### Operating Temperature

0° - 50°C

#### Storage Temperature

-5° - 55°C

#### Humidity

5% - 95% non-condensing

#### Emission - FCC Class B

- CE Class B
- C-Tick
- BSMI Class B

### Network O.S. Support

- Novell NetWare Server 4.x, 5.x
- Microsoft Windows 95 OSR2, 98, 98 SE, NT 4.0, ME, 2000, XP
- Linux kernel 2.2



### Ordering Information

#### Gigabit Fiber Server Card

DGE-550SX 1000BASE-SX Gigabit fiber PCI card (SC Connector)

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